LCM

\text{LCM}[n_1, n_2, \ldots] \text{ gives the least common multiple of the } n_i. \quad >>

\text{n = 35;}
(\text{LCM} @@ \text{Range}[n]) / \text{Range}[n]

\{144403552893600, 72201776446800, 48134517631200, 36100888223400,
28880710578720, 24067258815600, 20629078984800, 18050444111700,
16044839210400, 144403552893600, 13127595717600, 12033629407800,
11107965607200, 10314539492400, 96269035265800, 902522055850,
8494307060800, 8022419605200, 7600186994400, 72201776446800, 6876359661600,
653797858800, 6278415343200, 6016814703900, 5776142115744, 553982803600,
5348279736800, 5157269746200, 4979432858400, 48134517631200, 4658179125600,
4512611027925, 4375865239200, 4247163320400, 4125815796960\}

\text{Range}[n]
\{1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18,
19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35\}

\text{LCM} @@ \text{Range}[65]
1182266884102822267511361600